

Complex electrical material with improved dielectric property - comprises fluoropolymer matrix contg. dispersed filler e.g. PTFE contg. boron nitride or silica

Patent Assignee: MATSUSHITA ELECTRIC WORKS LTD (MATW)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 3212987	A	19910918	JP 909277	A	19900117	199144 B

Priority Applications (No Type Date): JP 909277 A 19900117

Abstract (Basic): JP 3212987 A

In a complex material for electric use has filler dispersed in fluoropolymer matrix. The filler consists of fine particles with the average particle size of up to 2 micron m, and the amt of the filler is 5 - 60 vol.%.

Pref. the fluoropolymer is e.g. PTFE, tetrafluoro ethylene -hexafluoro propylene copolymer, tetrafluoro ethylene -perfluoro alkylvinyl ether copolymer, tetrafluoro ethylene -ethylene copolymer, polychlorotrifluoro ethylene, or blends thereof. The filler e.g. consists of B nitride or amorphous synthesised silica. The mixing of the fluoropolymer and the filler is carried out in dry blending method in which the polymer and the filler are directly mixed, or in wet blending method in which the filler is added in a dispersion of the polymer, followed by flocculation.

USE/ADVANTAGE- The complex material shows an excellent dielectric property, a small thermal expansion coefficient, and an excellent workability in punching or drilling etc., and is suitable as material for printed circuit board etc., (16pp Dwg.No. O/O)

Title Terms: COMPLEX; ELECTRIC; MATERIAL; IMPROVE; DIELECTRIC; PROPERTIES; COMPRISE; FLUORO; POLYMER; MATRIX; CONTAIN; DISPERSE; FILL; PTFE; CONTAIN ; BORON; NITRIDE; SILICA

Derwent Class: A18; A85; L03; P73; V04

International Patent Class (Additional): B32B-015/08; C08J-005/00; C08L-027/12; H01B-003/00; H05K-001/03

File Segment: CPI; EPI; EngPI

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